## **AMENDMENTS TO THE CLAIMS**

## 1-19. (Cancelled)

- 20. (Original) A detection control circuit for detecting a consumption status of liquid contained in a liquid container by a detection device having a piezoelectric element, the circuit comprising:
- a measurement circuit segment for measuring a residual vibration of the detection device; and
- a detection circuit segment receiving a signal from said measurement circuit segment and outputting a signal indicative of the consumption status of the liquid contained in the liquid container on the basis of the output signal of said measurement circuit segment.
- 21. (Original) The detection control circuit according to claim 20, wherein said measurement circuit segment measures a frequency of the residual vibration of the detection device.
- 22. (Original) The detection control circuit according to claim 20, wherein said measurement circuit segment measures at least one resonance frequency of the liquid surrounding the detection device.
- 23. (Original) The detection control circuit according to claim 20, wherein said measurement circuit segment measures a counterelectromotive voltage generated by the detection device in accordance with the residual vibration thereof.

- 24. (Original) The detection control circuit according to claim 20, wherein said measurement circuit segment comprises an amplifier, said amplifier comprises a PNP type transistor and a NPN type transistor which complementarily connecting with said PNP type transistor, and emitter of said PNP type transistor and an emitter of said NPN type transistor connect with each other.
- 25. (Original) The detection control circuit according to claim 24, wherein a drive voltage generated between a point connecting between the emitter of said NPN type transistor and said PNP type transistor and the ground is applied to the detection device.
- 26. (Original) The detection control circuit according to claim 20, wherein said measurement circuit segment comprises an amplifier, said amplifier comprises a P-channel field effect transistor and a N-channel field effect transistor which complementarily connecting with said P-channel field effect transistor, and a source of said P-channel transistor and a source of said N-channel transistor connect with each other.
- 27. (Original) The detection control circuit according to claim 26, wherein a drive voltage generated between a point connecting between the sources of said N-channel FET and said P-channel FET and the ground is applied to the detection device.
- 28. (Original) The detection control circuit according to claim 20, wherein said detection circuit segment comprises a counter for counting number of the vibration of the residual vibration within a predetermined time period, and said detection circuit segment judges the liquid consumption status in accordance with the counted value.
- 29. (Original) The detection control circuit according to claim 20, wherein said detection circuit segment comprises a counter for counting number of clocks within a time period where the residual vibration vibrates a predetermined number of times, said clock has a cycle shorter than the vibration cycle of the residual vibration.

- 30. (Original) The detection control circuit according to claim 28 or 29, wherein said detection circuit starts counting the number of vibration of the residual vibration after a predetermined number of vibrations of the residual vibration has occurred.
- 31. (Original) The detection control circuit according to claim 20, wherein said detection circuit segment outputs a signal representing whether the liquid container connects with said measurement circuit.
- 32. (Original) The detection control circuit according to claim 20, wherein said measurement circuit segment further comprises a plurality of amplifiers connecting with a respective one of a plurality of the detection devices to supply a drive voltage, and said detection circuit segment receives a plurality of signals from said measurement circuit segment corresponding to the respective detection device and outputting a plurality of signals indicative of the consumption status of the liquid contained in the liquid container on the basis of each of the output signals of said measurement circuit segment.
- 33. (Original) The detection control circuit according to claim 20, further comprising a control circuit segment for controlling an operation to consume the liquid contained in the liquid container in accordance with the output signal of said detection circuit segment.
- 34. (Original) The detection control circuit according to claim 33, wherein said control circuit segment comprises an information memory control circuit segment for reading out the liquid consumption status stored in a memory device attached to the liquid container and writing in the memory device information relating to the liquid consumption status detected by said detection circuit segment.

## **35-44.** (Cancelled)